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	Cambridge IGCSE		<b>ridge Interna</b> ridge Internat		e of Secondary Edu	cation	
	CANDIDATE NAME						
	CENTRE NUMBER				CANDIDATE NUMBER		
	MATHEMATICS	S					0580/11
	Paper 1 (Core)				Oc	tober/No	ovember 2015
							1 hour
0	Candidates ans	swer on t	he Question P	aper.			
*	Additional Mate	rials:	Electronic ca Tracing pape		Geometrical instrum	ents	

## READ THESE INSTRUCTIONS FIRST

Write your Centre number, candidate number and name on all the work you hand in.

Write in dark blue or black pen.

You may use an HB pencil for any diagrams or graphs. Do not use staples, paper clips, glue or correction fluid. DO **NOT** WRITE IN ANY BARCODES.

Answer **all** questions.

If working is needed for any question it must be shown below that question.

Electronic calculators should be used.

If the degree of accuracy is not specified in the question, and if the answer is not exact, give the answer to three significant figures. Give answers in degrees to one decimal place. For  $\pi$ , use either your calculator value or 3.142.

At the end of the examination, fasten all your work securely together. The number of marks is given in brackets [] at the end of each question or part question. The total of the marks for this paper is 56.

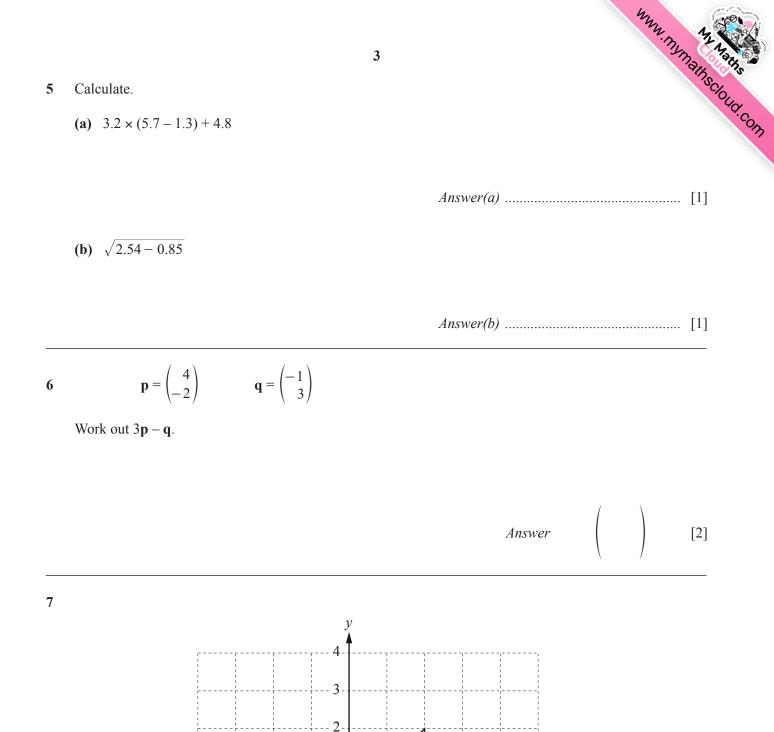
The syllabus is approved for use in England, Wales and Northern Ireland as a Cambridge International Level 1/Level 2 Certificate.

This document consists of **11** printed pages and **1** blank page.



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						WWW. MYMATHSCIOL	
				2		YMar Ma	5
1	Write these numbers in	n order of siz	e, starting with	the smallest.		"Scio	
		5.024	0.524	5.204	5.0204		a.con
			Answer		<		ĺ
			smal				ĺ
2	At midnight the temper At noon the next day th						
	Work out the rise in ter	mperature fro	om midnight to	noon.			ĺ
				A	nswer	°C [1]	
3	Simplify $\frac{r^6}{r^2}$ .						
				A	nswer	[1]	
4	(a) Work out $\frac{5}{12}$ of 1	68.		A	Inswer	[1]	
4	(a) Work out $\frac{5}{12}$ of 1			A	Inswer	[1]	
4	(a) Work out $\frac{5}{12}$ of 1	. 68.					
4	(a) Work out $\frac{5}{12}$ of 1	68.				[1]	
4	(a) Work out $\frac{5}{12}$ of 1 (b) Write $\frac{3}{8}$ as a decise						



A

2

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 $\binom{2}{-3}$ .

4

х

- 1 -

0

-1

-2

-3-

-1

-3

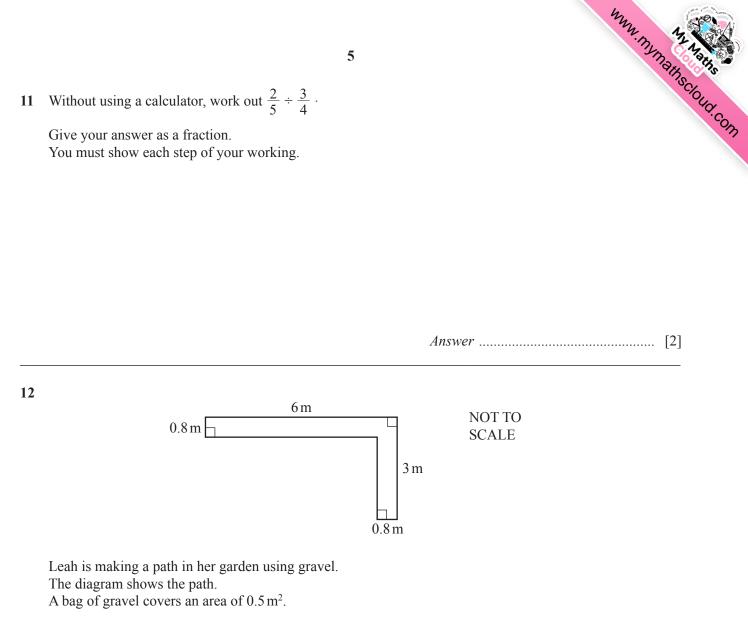
Draw the image of shape A after a translation by the vector

-2

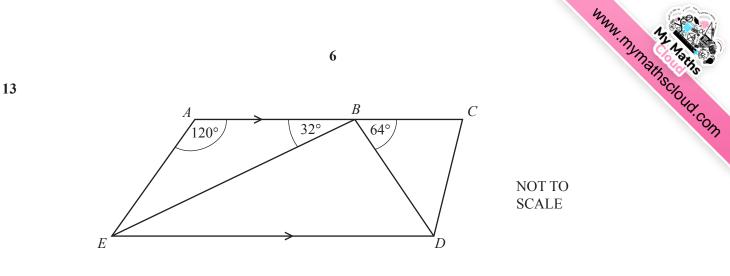
[2]

Pip and Ali share \$785 in the ratio $Pip:Ali =$	4:1.				athso
Work out Pip's share.					MW. Mynainst
		Ans	wer \$		 [2]
Jim scores the following marks in 8 tests.					
7 8 8 y	6	9	10	5	
His mean mark is 7.5.					
Calculate the value of <i>y</i> .					
		Answ	er v =		 

0580/11/O/N/15



Work out the number of bags of gravel Leah must buy to make the path.



The diagram shows quadrilateral *ACDE*. *AC* is parallel to *ED* and *B* is a point on *AC*. Angle  $EAB = 120^\circ$ , angle  $ABE = 32^\circ$  and angle  $CBD = 64^\circ$ .

(a) Work out angle *EBD*.

Answer(a) Angle  $EBD = \dots$ [1]

(b) Work out angle *AEB*.

$$Answer(b) \text{ Angle } AEB = \dots \qquad [1]$$

(c) Complete this statement.Angle *BED* = angle *ABE* because they are ......angles. [1]

14 Work out the size of one interior angle of a regular 15-sided polygon.

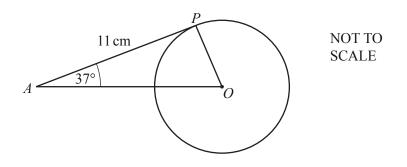
## 15 Chico has a bag of sweets.

ta		m the bag at rai	ndom. `taking each fla	7 vour of sweet.		W	MW. TRYNREHISCIOUD. COM
	Flavour	Lemon	Lime	Strawberry	Blackcurrant	Orange	
	Probability	0.15	0.22		0.18	0.24	

- (a) Complete the table.
- (b) Find the probability that the sweet is lemon or lime.

[2]

16



In the diagram, AP is a tangent to the circle at P. O is the centre of the circle, angle  $PAO = 37^{\circ}$  and AP = 11 cm.

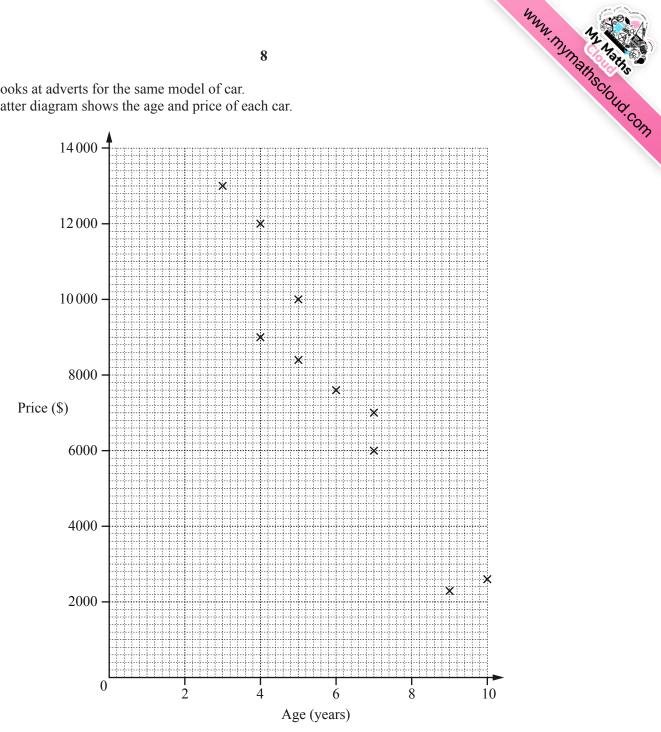
(a) Write down the size of angle *OPA*.

Answer(a) Angle  $OPA = \dots$  [1]

(b) Work out the radius of the circle.

*Answer(b)* ..... cm [2]

Amir looks at adverts for the same model of car. 17 The scatter diagram shows the age and price of each car.

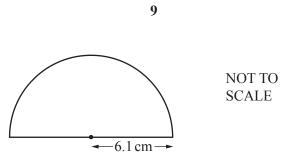


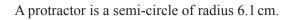
(a) What type of correlation is shown on the scatter diagram?

*Answer(a)* ..... [1]

[1]

- (b) Draw a line of best fit on the scatter diagram.
- (c) Use your line of best fit to estimate the price of a car that is 8 years old.





Calculate the **perimeter** of the protractor.

Answer ..... cm [3]

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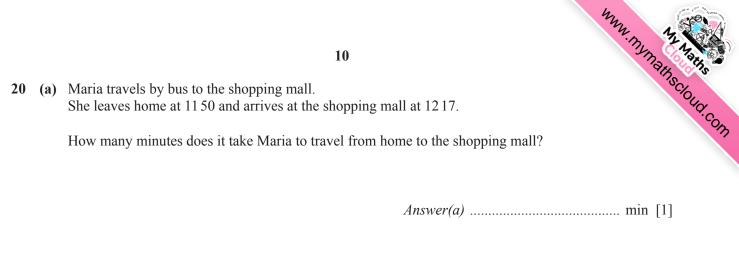
**19 (a)** s = 4t + 3u

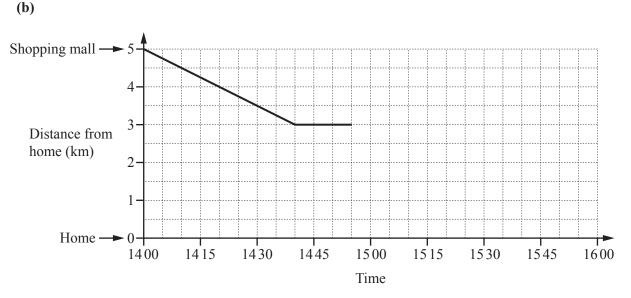
Calculate *s* when t = 2.6 and u = -0.4.

 $Answer(a) \ s = \dots \qquad [2]$ 

**(b)** Solve 5x - 7 = 10.

 $Answer(b) x = \dots$ [2]





Maria walks home from the shopping mall. The travel graph shows part of her journey.

(i) Maria stops at her friend's house on the way home.

How far from the shopping mall does her friend live?

*Answer(b)*(i) ..... km [1]

(ii) Maria leaves her friend's house at 1455.She walks the rest of the way home at a constant speed of 4 km/h.

Complete the travel graph.

[2]



**21 (a)** Sara works for 28 hours each week. She earns \$12.45 per hour.

Calculate how much she earns in one week.

(b) Sara invests \$750 for 3 years at a rate of 2.4% per year compound interest.

Calculate the total amount she will have at the end of the 3 years.

22 (a) Write down the next term in each of these sequences. 9 13 (i) 5 17 . . . (ii) **3** 6 12 24 (b) Here are the first four terms in a different sequence. 2 7 12 17 Find an expression for the *n*th term of this sequence.



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